# Wall louvre – DUCO Ventilation & Sun Control DucoGrille Solid G 30Z Barrier Load

## Description

DucoGrille Solid G 30Z Barrier Load is a recessed wall louvre made of aluminium extrusion profiles. The louvre blades offer high ventilation capacity with relatively small louvre blades. The ‘stackable’ louvre blades form a single whole, making them extra strong. The louvre blades are available with small punching (P1), large punching (P2) or as false louvres (NP).   
The grille also serves as impact and fall-through protection.

## Version

* Shape of blade 30Z
* Punching NP – not punched

P1 – height 21 mm x width 2,5 mm

P2 – height 21 mm x width 18 mm

* Pitch 37,5 mm
* Frame width 45 mm
* Flange depth 15 mm
* Frame depth 42 mm
* Mesh Punching

P1 as insect mesh

P2 as rodent mesh

Stainless-steel mesh

2,3 x 2,3 mm as insect mesh

6 x 6 mm as rodent mesh

20 x 20 mm as bird mesh

* Drip tray profile Optional

The following combinations are available:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **NP** | **P1** | **P1**  **Incl mesh** | **P1 + options** | **P1**  **Incl mesh**  **+ options** | **P2** | **P2**  **+ options** |
| **Punching P1** | - | S | S | S | S | - | - |
| **Punching P2** | - | - | - | - | - | S | S |
| **Stainless-steel mesh**  **2,3 x 2,3** | - | - | S | - | S | - | S |
| **Stainless-steel mesh**  **6 x 6** | - | - | - | - | O | - | O |
| **Stainless-steel mesh**  **20x20** | - | - | - | - | O | - | O |
| **Drip tray profile** | - | - | - | S | S | - | S |

S = standard O = optional

## Material and surface treatment

* Aluminium EN AW-6063 T66 (EN 573-3)

Profile thickness: min. 1,5 mm

* Finish
  + Natural anodised (15-20 μm) according to Qualanod
  + Polyester powder coated (60-80 μm) according to Qualicoat Seaside type A (specific RAL codes or textured paint on request)

## Technical specifications

### Reaction to fire

AS-s1,d0 (EN 13501-1)

### Impact resistance

|  |  |
| --- | --- |
|  | **Class** |
| **EN 13049** | 5 |
| **NF P08-302** | H2/C2 |

### Fall-through protection

|  |  |
| --- | --- |
|  | **Class** |
| **B03-004** | C4 |
| **NEN-EN 1991-1-1** | A/B/F/G |
| **NF P01-013** | A/B (Width < 600 mm) |
| **BS 6180** | XI |

### Free area

|  |  |  |  |
| --- | --- | --- | --- |
|  | **NP** | **P1**  **P1 incl mesh**  **P1 + options**  **P1 incl mesh + options** | **P2**  **P2 + options** |
| **Visual free area**  **(Per metre punching)** | 0 % | 60 % | 86 % |
| **Physical free area** | 0 % | 34 % | 48 % |

### Airflow data

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EN 13030** | **NP** | **P1** | **P1**  **Incl mesh** | **P1 + options** | **P1**  **Incl mesh**  **+ options** | **P2** | **P2**  **+ options** |
| **Ce** | - | 0,243 | 0,233 | 0,216 | 0,21 | 0,258 | 0,232 |
| **K-factor intake** | - | 16,94 | 18,42 | 21,43 | 22,68 | 15,02 | 18,58 |
| **Cd** | - | 0,234 | 0,224 | 0,242 | 0,226 | 0,253 | 0,266 |
| **K-factor exhaust** | - | 18,26 | 19,93 | 17,08 | 19,58 | 15,62 | 14,13 |

### Water resistance

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EN 13030** | **NP** | **P1** | **P1**  **Incl mesh** | **P1 + options** | **P1**  **Incl mesh**  **+ options** | **P2** | **P2**  **+ options** |
| **V = 0 m/s** | - | B | C | B | A | C | B |
| **V = 0,5 m/s** | - | C | C | B | B | C | B |
| **V = 1 m/s** | - | C | C | C | B | C | B |
| **V = 1,5 m/s** | - | D | C | C | B | D | B |
| **V = 2 m/s** | - | D | D | D | B | D | C |
| **V = 2,5 m/s** | - | D | D | D | C | D | D |
| **V = 3 m/s** | - | D | D | D | D | D | D |
| **V = 3,5 m/s** | - | D | D | D | D | D | D |